| Application No. | Applicant(s) | |
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| 10/665,724 | BARTON ET AL. | |
| Examiner | Art Unit | |
| Tony H. Winner | 3611 | · |
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| filed 3/10/05. | | |
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| 6. ☐ Interview S Paper No. 8), 7. ☑ Examiner's | Summary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allow | |
| | Examiner Tony H. Winner ars on the cover sheet w (OR REMAINS) CLOSED or other appropriate common GHTS. This application is and MPEP 1308. filed 3/10/05. the Examiner. der 35 U.S.C. § 119(a)-(d) been received. been received in Application to file cuments have been received. beth received in Application. tted. Note the attached EX is reason(s) why the oath of the submitted. on's Patent Drawing Reviews Amendment / Comment of the header according to 37 Circles of BIOLOGICAL MATEOR THE DEPOSIT OF BIOLOGICAL MATEOR THE D | Examiner Tony H. Winner ars on the cover sheet with the correspondence addres (OR REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due or GHTS. This application is subject to withdrawal from issue and MPEP 1308. filed 3/10/05. the Examiner. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No cuments have been received in this national stage application of this application. ted. Note the attached EXAMINER'S AMENDMENT or NO is reason(s) why the oath or declaration is deficient. the besubmitted. on's Patent Drawing Review (PTO-948) attached a Amendment / Comment or in the Office action of the behaved according to 37 CFR 1.121(d). Sit of BIOLOGICAL MATERIAL must be submitted. No FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. |

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Election

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a. Applicants elect species II without traverse is acknowledged. Claims 1, 9, 11-12, 15-18 and 20-43 were said to be readable on the elected species, corresponding to figure 4. Claims 2-8, 13-14, and 19 are withdrawn from consideration. Claim 10 is cancelled.

Examiner's Amendment

b. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John B. Molnar on 6/17/05.

The application has been amended as follows:

- 1. Claim 1 line 2 the words "the self-centering" have been replace with a self-centering --,
 - 2. Claim 1 line 3 inserting the letter a in front of the words "split mu",
- 3. Claim 1 line 11 inserting the word target in front of the words "self-centering",
 - 4. Claim 2 line 3 replaces the words "a corrective" with said corrective –,
 - 5. Claim 3 line 5 replaces the words "the track" with a track –,
 - 6. Claim 5 line 3 replaces the words "a corrective" with said corrective –,

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- 7. Claim 6 line 2 replaces the words "that invert" with inverting --,
- 8. Claim 7 line 3 replaces the words "a corrective" with said corrective –,
- 9. Claim 11 line 2 replaces the words "claim 15" with claim 9 --,
- 10. Claim 10 line 2 replaces the words "claim 10" with claim 1 --,
- 11. Claim 13 line 2 replaces the words "with an" with as said –,
- 12. Claim 14 line 3 replaces the words "the actual" with —an actual —,
- 13. Claim 15 line 2 replaces the words "a corrective" with said corrective --,
- 14. Claim 15 line 4 inserting the letter a in front of the word "vehicle" and "steer angle",
 - 15. Claim 16 line 2 replaces the words "the actual" with an actual –,
 - 16. Claim 18 line 2 replaces the words "the estimated" with said estimated --,
 - 17. Claim 19 line 2 replaces the words "the braking" with said braking –,
 - 18. Claim 19 line 5 replaces the words "the actual" with an actual --,
 - 19. Claim 21 line 2 replaces the words "claim 20" with claim 1 –,
 - 20. Claim 21 line 3 inserting the word an in front of the word "operational",
 - 21. Claim 22 line 3 inserting the word an in front of the word "operational",
 - 22. Claim 28 line 2 replaces the words "claim 15" with claim 1 –,
 - 23. Claim 29 line 2 inserting the word an in front of the word "operational",
 - 24. Claim 30 line 2 inserting the word an in front of the word "operational";
 - 25. Claim 31 line 3 inserting the letter a in front of the word "yaw",
 - 26. Claim 32 line 2 inserting the word an in front of the word "operational",
 - 27. Claim 35 line 2 replaces the words "claim 15" with claim 1 –,

- 28. Claim 35 line 6 inserting the letter a in front of the word "yaw",
- 29. Claim 36 line 2 replaces the words "claim 15" with claim 1 --,
- 30. Claim 36 line 2 inserting the word an in front of the word "ABS",
- 31. Claim 36 line 2 replaces the words "the apply" with an apply --,
- 32. Claim 36 line 5 inserting the word an in front of the word "actual yaw",
- 33. Claim 36 line 5 inserting the letter a in front of the word "yaw" acceleration",
 - 34. Claim 37 line 1 replaces the words "claim 15" with claim 1 --,
 - Claim 40 line 3 inserting the letter a in front of the word "demand".
 - 36. Claim 41 line 3 replaces the words "the initial" with an initial –,
 - 37. Claim 41 line 3 replaces the words "to the" with to be as an –,
 - 38. Claim 42 line 2 replaces the words "the high" with a high –,
- 39. Page 1 line 5 of the specification, the word "manoevres" has been replaced with - maneuvers --,
- 40. Page 6 line 9 of the specification, the word "tyre" has been replaced with tire -,
 - 41. Replaces the abstract with a new abstract (see attachment A).

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: C.

Claims 1, 9, 11-12, 15-18 and 20-43 are allowed because the prior art neither shows nor teaches a vehicle stability compensation system wherein during the split mu braking

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operation the system takes at least one operational variable representative of the target self-centering position and subtracts therefrom an actual vehicle steering angle to derive a target self-centering error and that a gain means for establishing a torque demand proportional to said self-centering error, the torque demand being added to an assistance torque generated by the electrically assisted steering system to shift the self-centering position so as to encourage the vehicle driver to move the steering wheel such as to reduce the target self-centering error to zero for maintaining the vehicle stable and controllable.

- d. Non-elected dependent claims 2-8, 13-14, and 19 are now rejoined because these claims depend on generic allowed claims and therefore, are in condition for allowance.
- e. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- f. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony H. Winner whose telephone number is (571) 272-6654.
- g. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris, can be reached at (571) 272-6651. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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h. Information regarding the status of an application may be obtained from the Patent Application Information-Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-6584.

TONY WINNER
PATENT EXAMINER

June 19, 2005

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New Abstract (Attachment A)

A vehicle stability compensation system, which is arranged to adjust dynamically the self-centering position and the steering feel of the vehicle steering system during split mu braking operation. The adjustment being based on at least one operational variable that representing a corrective steer angle for the vehicle and hence representing a target self-centering position. A target self-centering error is derived from the difference between target self-centering position and an actual vehicle steering angle. A torque demand that is proportional to the target self-centering error is then added to an assistance torque generated by the electrically assisted steering system to shift the self-centering position so as to encourage the vehicle driver to move the steering wheel such as to reduce the target self-centering error to zero for maintaining the vehicle stable and controllable.